

## DS POWER X

100-400kVA

Output Power Factor (PF) 1.0

3-Level Technology

DSP Control

1.0

POWER FACTOR



TOWER

VFI  
TYPE

UPS ONLINE



SERVICE /  
TECH. SUPPORT



ECO FRIENDLY



DS Power X Online UPS uses the latest DSP technology, which can be programmed to suit a wide variety of electrical environments without impeding its performance. It stands out with its stylish design, high power density (250KVA in less than 0.5m<sup>2</sup> area) and less noisy operation than its counterparts. As a state-of-the-art product, the input and output side have been designed as 3-Level to maximize efficiency, reliability and functionality. This technology not only creates a significant increase in MTBF, but the DSP's ability to accurately process signals at very high speed allows all UPS subsystems to be controlled with greatly increased precision.

## GENERAL SPECIFICATIONS

- kVA = kW (Output PF = 1.0)
- Transformerless ups technology
- 3 DSP controlled modular structure
- High power density
- Separate main control board program for rectifier and inverter
- 3-Level rectifier, inverter technology and fully digital structure
- Less electronic components and SMD technology
- Low input current total harmonic distortion (THDi)
- High input power factor
- High efficiency up to 96.0%
- Selectable input/output voltage/frequency/range
- Static and maintenance by-pass switch
- High charge current capacity
- Ecomode operation (optional)
- Split by-pass input (dual input)
- Advanced TFT front panel
- Optional 0.8 and 0.9 output power factor (PF) option
- Cold start function
- ISO9001, ISO14001 compliant production
- Advanced diagnostics for the input
- 3 level battery protection
- Temperature compensated charge system
- Output current limitation
- Output DC leakage protection
- Output short circuit and overload protection
- External REPO input
- 512 events memory (46.000 alarm)
- Clock and calender (battery supported)
- Automatic battery test, remaining battery time indicator
- Static and maintenance by-pass switch
- 2 RS232 serial ports and 4 programmable dry contact outputs
- Optional 12 dry contact outputs
- Optional SNMP, MODBUS and Remote Monitoring Panel
- View device operating parameters
- Advanced remote control features
- 2 years warranty

## TECHNICAL SPECIFICATIONS

MODEL	DX3100	DX3120	DX3160	DX3200	DX3250	DX3300 (soon)	DX3400 (soon)
Power (kVA)	100	120	160	200	250	300	400
<b>INPUT</b>							
Voltage	380/400 VAC 3P + N + G $\pm$ 20% (at 100% load) / - 40% (at 70% load)						
Frequency	50Hz / 60Hz, $\pm$ 10%						
Power factor	$\geq$ 0.99						
THDI (*)	$\leq$ 3%						
By-pass voltage	380/400 VAC 3 Phase + N, $\pm$ 10 (adjustable)						
Voltage distortion	$\leq$ 10%						
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator						
<b>OUTPUT</b>							
Power (kW)	100	120	160	200	225	300	400
Power factor (**)	1.0				0.9	1.0	
Voltage	380/400 VAC 3F + N, $\pm$ %1						
Frequency	50Hz / 60Hz						
Frequency tolerance	Line synchronized: $\pm$ 2% (adjustable) / Free running: $\pm$ 0.1%						
Efficiency	up to 95.5%			up to 96.0%			
Crest factor	3:1						
Overload protection	100% - 125% load: 10 min, 125% - 150% load: 1 min, - > 150% load: by pass						
Other protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting						
Voltage THD	$\leq$ 2% (at 100% linear load)						
<b>BATTERIES</b>							
Type	VRLA AGM / GEL / NiCd						
Nominal voltage	$\pm$ 360 VDC						
Float / End of discharge voltage	$\pm$ 405 VDC / $\pm$ 300 VDC						
Battery cabinet	External						
Battery ambient temperature	25°C						
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)						
Automatic testing	Standard every 72 hours (adjustable)						
<b>GENERAL</b>							
User interface	TFT touch panel, 5 vector buttons, Buzzer						
Indicators	P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time						
Advanced	Self diagnostics, 3 maintenance time indicators, Calibration over RS232, Operating hour meter						
Communication	2xRS232 serial ports, 4 standard and 8 optional DRY contact alarm relays						
Inputs	EPO input, Interactive battery panel input, Genset input						
Genset kit	Standard (programmable)						
Software	Standard T-Mon UPS Management Software (3 clients + 1 server management)						
Alarm logging	Standard: with time & date 512 events						
Protections	Power module over-temperature, Overcurrent, Temperature high alarm						
Temperature range	0°C - 40°C						
Protection degree	IP20						
Relative humidity	90% max. (non-condensing)						
Altitude	< 1000m above sea level						
Acoustic noise	< 62dBA		< 65 dBA			< 67 dBA	
Weight (kg)	210	220	262	270	295	655	
Dimensions (mm) HxWxD	1440x475x890					1900x1250x775	
<b>OPTIONS</b>							
Different input / output voltage	Please ask						
Transformer	Galvanic isolation transformer at the input & output (external)						
Software	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients						
Adaptors	SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), TCP/IP, GSM/GPRS Modem, Comport multiplexer						
Parallel operation	up to 8						
(*) Depending on power and input/output conditions							
(**) Please ask for PF 0.8 and 0.9							